

ABSTRACT

RADIOFREQUENCY DEVICE OF THE TYPE WITH NIL OR QUASI-NIL  
INTERMEDIATE FREQUENCY MINIMISING PARASITE FREQUENTIAL  
MODULATION APPLIED TO AN INTEGRATED LOCAL OSCILLATOR

The device comprises on the same electronic chip frequency transposition means (MX) connected to a local main oscillator VCOP. The main oscillator VCOP is incorporated inside a main phase locked loop PLL2 whereof the reference frequency is supplied by a voltage-controlled auxiliary oscillator VCOA, itself incorporated into an auxiliary phase locked loop PLL1 whereof the reference frequency is less than the frequency of the auxiliary oscillator. The reference frequency SRFP of the main loop is less than the output frequency of the main oscillator, greater than 10 times the frequential spacing of the channels reduced to the output frequency of the main oscillator, and removed by a whole multiple of the send or receive frequency from at least the cut-off frequency of the main loop.

Reference: Figure 3.